

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

Claim 1 (Previously Presented) An isolated protein comprising any one of the amino acid sequences set forth in SEQ ID NOS: 1, 3, and 5 in the Sequence Listing.

Claim 2 (Previously Presented) An isolated protein having 98% or more homology to an amino acid sequence from the 1st to 262nd amino acids of the amino acid sequence set forth in SEQ ID NO:1 in the Sequence Listing, and which has an activity of enlarging mammary glands.

Claim 3 (Original) The protein according to Claim 2 having an amino acid sequence from the 1st to 262nd amino acids of the amino acid sequence set forth in SEQ ID NO: 1 in the Sequence Listing.

Claim 4 (Original) The protein according to Claim 2 having an amino acid sequence from the 1st to 262nd amino acids of the amino acid sequence set forth in SEQ ID NO:5 in the Sequence Listing.

Claim 5 (Previously Presented) An isolated protein having any one of the amino acid sequences set forth in SEQ ID NOS: 1, 3 and 5 in the Sequence Listing wherein one or more amino acids is substituted, which has 98% or more homology to the amino acid sequence disclosed in SEQ ID NOS:1, 3 or 5 and which induces differentiation of a milk protein-producing cell into a branched luminal structure.

Claim 6 (Previously Presented) An isolated protein in which one or more amino acids is substituted in an amino acid sequence defined by the 1st to 262nd amino acids of either of the amino acid sequence set forth in SEQ ID NOS: 1 or 5 in the Sequence Listing, which has 98% or more homology to the amino acid sequence defined by the 1st to 262nd amino acids of either of the amino acid sequence set forth in SEQ ID NO: 1 or 5 and induces differentiation of a milk protein-producing cell into a branched luminal structure.

Claim 7 (Previously Presented) An isolated protein having any one of the amino acid sequences set forth in SEQ ID NOS: 1, 3, and 5 in the Sequence Listing wherein one or more amino acids is substituted which has 98% or more homology to the amino acid sequence disclosed in SEQ ID NOS:1, 3 or 5 and which promotes hair growth.

Claim 8 (Previously Presented) An isolated protein in which one or more amino acids is substituted in an amino acid sequence defined by the 1st to 262nd amino acids of either of the amino acid sequences set forth in SEQ ID NOS: 1 or 5 in the Sequence Listing, which has 98% or more homology to the amino acid sequence defined by the 1st to 262nd amino acids of either of the amino acid sequences set forth in SEQ ID NO: 1 or 5 and promotes hair growth.

Claim 9 (Previously Presented) An isolated polynucleotide encoding the protein according to claim 1.

Claim 10 (Previously Presented) An isolated polynucleotide according to claim 9, which is a DNA set forth in SEQ ID NO: 2, 4 or 6.

Claim 11 (Canceled)

P20637.A15

Application No. 09/744,989

Claim 12 (Previously Presented) An isolated protein having 98% or more homology to an amino acid sequence from the 1st to 262nd amino acids of the amino acid sequence set forth in SEQ ID NO:1 in the Sequence Listing, and which promotes hair growth.